

EXCERCISE C23:

EJERCICIO C 23:

Determine if the set $S = \langle (3, 1), (7, 3) \rangle$ is linearly independent in the crazy vector space C ([example|CVS](#)).

Determinar si el conjunto $S = \langle (3, 1), (7, 3) \rangle$ es linealmente independiente en el espacio vectorial C . ([example|CVS](#)).

SOLUTION:

SOLUCION:

Notice, or discover, that the following gives a nontrivial relation of linear dependence on S in C , so by [definition|LI](#), the set S is linearly dependent.

$$2(3, 1) + (-1)(7, 3) = (7, 3) + (-9, -5) = (-1, -1) = \mathbf{0}$$

continuation, note that the following, gives a non trivial relation of linear dependence of S in C , then by [definition|LI](#), the set S is linearly dependent.

$$2(3, 1) + (-1)(7, 3) = (7, 3) + (-9, -5) = (-1, -1) = \mathbf{0}$$